

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BZ-840625AH

Call Sign: WTSN

AM BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, the LICENSEE

GARRISON CITY BROADCASTING, INC.

Is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time APRIL 1, 1991 in accordance with the following:

1. Station location: Dover, New Hampshire

2. Main Studio location:

(Listed only if not at  
transmitter site or not  
within boundaries of  
principal community)

3. Remote control location:

4. Transmitter location: Back Road  
Dover, New Hampshire

North latitude : 43° 11 ' 01 "  
West longitude: 70° 51 ' 14 "

5. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.)

6. Antenna and ground system: See Page 2.

7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: none required

8. Frequency (kHz.): 1270

9. Nominal power (kW): 5.0 Day  
5.0 Night

Antenna input power (kW): 5.4 Day

☐ Non-directional antenna: current \_\_\_\_\_ amperes; resistance \_\_\_\_\_ ohms.  
☒ Directional antenna : current 10.4 amperes; resistance 50 ohms.

5.4 Night

☐ Non-directional antenna: current \_\_\_\_\_ amperes; resistance \_\_\_\_\_ ohms.  
☒ Directional antenna : current 10.4 amperes; resistance 50 ohms.

10. Hours of operation: Specified in ~~construction permit~~ previous authorization

11. Conditions: — —

The Commission reserves the right during said license period of terminating this license or making effective any change or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934, as amended.

<sup>1</sup> This license consists of this page and pages 2, 3, & 4

Dated: JUL 10 1985

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COMMISSION



JUL 16 1985

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Date:

DA- 2

### 1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

**No. and Type of Elements:** Four uniform cross-section, guyed, series-excited, vertical steel radiators.

**Height above Insulators:** 200' (93°)

**Overall Height:** 205'

**Spacing and Orientation:** Towers arranged in the form of a parallelogram with the long sides spaced 516.24' (240°) on a line bearing 166.5° true and the short sides spaced 258.12' (120°) on a line bearing 113.5° true.

**Non-Directional Antenna:** None Used.

**Ground System consists of** 120-200' to 350' equally spaced, buried copper radials about the base of the tower. Radials are shortened and bonded to common transverse copper strap along intersections between towers.

### 2. THEORETICAL SPECIFICATIONS

<b>Phasing:</b>	Tower	NW(#1)	SW(#2)	SE(#3)	NE(#4)
	Night:	0°	-132°	89°	-139°
	Day:	90°	-90°	--	-119.5°
<b>Field Ratio:</b>	Night:	1.0	.909	.795	.875
	Day:	1.0	1.0	--	3.4

### 3. OPERATING SPECIFICATIONS

#### Phase Indication\*:

Night:	134°	5°	-130.0°	0°
Day:	-160°	28°	--	0°

<b>Antenna Base</b>	Night:	1.257	1.457	1.171	1.0
<b>Current Ratio:</b>	Day:	0.301	0.3295	--	1.0

#### Antenna Monitor Sample

<b>Current Ratio:</b>	Night:	1.269	1.383	1.170	1.0
		0.30	0.32	--	1.0

\* As indicated by Potomac Instruments AM-19(204) antenna Monitor.

EXEMPTIONS AS LISTED IN 73.68(b) WILL APPLY DURING PROPER OPERATION OF APPROVED SAMPLING SYSTEM.

Field measuring equipment shall be available at all times and the field intensity at each of the monitoring points shall be measured at least once every seven days and appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD STRENGTH OF MONITORING POINTS:

Direction of 3.5° true North. From the transmitter proceed west (left) on Back Road 0.2 miles to "T" junction with Henry Law Avenue. Turn right (north) on Henry Law Avenue and proceed 1.2 miles to intersection with Washington Street. At traffic light make sharp right (east) turn and proceed 0.2 miles on Washington Street to intersection with Portland Street (Rt.4). Bear right (east) on Portland Street and travel 0.05 miles to "Y" intersection with Cocheco Street. Proceed right on Cocheco Street, 0.7 miles to "Y" intersection with Gulf Road. Proceed right (east) on Gulf Road 0.3 miles to monitor point. The 3.5 degrees Night monitor point is located on the right (south) side of the road directly in line with west wall of first storage shed which is painted brown. The point is 1.12 miles from the antenna. The field intensity measured at this point should not exceed 52.8 mV/m, Night.

Direction of 38° true North. From the transmitter proceed west (left) on Back Road 0.2 miles to "T" junction with Henry Law Avenue. Turn right (north) on Henry Law Avenue and proceed 1.2 miles to intersection with Washington Street. At traffic light make sharp right (east) turn and proceed 0.2 miles on Washington Street to intersection with Portland Street (Rt.4). Bear right (east) on Portland Street and travel 0.05 miles to "Y" intersection with Cocheco Street. Proceed right on Cocheco Street 0.7 miles to "Y" intersection with Gulf Road. Proceed right (east) on Gulf Road 1.4 miles to intersection with Bear Road. Turn left (north) on Bear Road and proceed 0.5 miles to monitor point. The 39 degree Day and Night monitor point is located on the west side of the road opposite power pole #37/10. The point is 1.75 miles from the antenna. The field intensity measured at this point should not exceed 156.5 mV/m, Night and 70.5 mV/m, Day.

Direction of 64.7° true North. From the transmitter proceed west (left) on Back Road 0.2 miles to "T" junction with Henry Law Avenue. Turn right (north) on Henry Law Avenue and proceed 1.2 miles to intersection with Washington Street. At traffic light make sharp right (east) turn and proceed 0.2 miles on Washington Street to intersection with Portland Street (Rt.4). Bear right (east) on Portland Street and travel 0.05 miles to "Y" intersection with Cocheco Street. Proceed right on Cocheco Street 0.7 miles to "Y" intersection with Gulf Road. Proceed right (east) on Gulf Road 1.7 miles to the monitor point. The 64.7 degree Night monitor point is located on the left (north) side of the road. (at a small dirt turn-off), just northwest of the guard rail on the Eliot Bridge. The point is 1.4 miles from the antenna. The field intensity measured at this point should not exceed 24.1 mV/m, Night.

Direction of 176° true North. From the transmitter site proceed east (right) on Back Road 1.9 miles to Tuttle Lane. Turn right (west) on Tuttle Lane and proceed 0.3 miles to the intersection with Route 16. Turn right (west) on Route 16 and proceed 0.25 miles to Old Dover Point Road. Turn left on Old Dover Point Road and proceed 0.2 miles to Cushing Road. Turn left (south) on Cushing Road and travel 0.1 miles to "Y" intersection. Turn right (southwest) and proceed west across expressway 0.1 miles to "T" intersection. Turn left (southeast) and proceed 0.5 miles to monitoring point. The 176 degree Day monitor point is located on the east side of the road opposite power pole 168/13. The point is 1.72 miles from the antenna. The field intensity measured at this point should not exceed 63.0 mV/m, Day.

DESCRIPTION OF AND FIELD STRENGTH OF MONITORING POINTS:    CONT'D

Direction of 230.5° true North. From the transmitter site proceed east (right) on Back Road 1.9 miles to Tuttle Lane. Turn right (west) on Tuttle Lane and proceed 0.3 miles to the intersection with Route 16. Turn right (west) on Route 16 and proceed 2 miles to intersection with Central Avenue (Rt.108). Turn left (southwest) on Central Avenue and proceed 0.3 miles to "Y" intersection with Durham Road (Rt.108). Bear right and proceed 1.7 miles on Durham Road to Freshet Road. Turn left (southeast) on Freshet Road and proceed 0.15 miles to monitor point. The 230.5 degree Day and Night monitor point is located at the entrance of a dirt drive south of the greenhouse. The point is located 2.65 miles from the antenna. The field intensity measured at this point should not exceed 19.6 mV/m, Night , 50.7 mV/m, Day.

Direction of 268.5° true North. From the transmitter site proceed east (right) on Back Road 1.9 miles to Tuttle Lane. Turn right (west) on Tuttle Lane and proceed 0.3 miles to the intersection with Route 16. Turn right (west) on Route 16 and proceed 2 miles to intersection with Central Avenue (Rt.108). Turn left (southwest) on Central Avenue and proceed 0.3 miles to "Y" intersection with Durham Road (Rt.108). Bear right and proceed 0.8 miles on Durham Road to Bellamy Road. Turn right (north) on Bellamy Road and proceed 0.8 miles to Cataract Avenue. Turn right (east) on Cataract Avenue traveling 0.25 miles to the entrance to St. Johns Church. The 268.5 degree Night monitor point is located on the north side of the driveway to the church on a sewer manhole cover. The point is located 1.5 miles from the antenna. The field intensity measured at this point should not exceed 38.4 mV/m, Night.

Direction of 310° true North. From the transmitter site proceed east (right) on Back Road 1.9 miles to Tuttle Lane. Turn right (west) on Tuttle Lane and proceed 0.3 miles to the intersection with Route 16. Turn right (west) on Route 16 and proceed 2 miles to intersection with Central Avenue (Rt.108). Turn left (southwest) on Central Avenue and proceed 0.3 miles to "Y" intersection with Durham Road (Rt.108). Bear right and proceed 0.8 miles on Durham Road to Bellamy Road. Turn right (north) on Bellamy Road and proceed 1 mile to intersection with Route 155. Turn right (east) on Route 155 and proceed 0.6 miles to intersection with Arch Street. Turn left (north) on Arch Street and proceed 0.25 miles to Washington Street. Bear left on Washington Street and travel 0.6 miles to "Y" intersection just east of expressway at Diccicos Market. Bear right at this intersection and proceed 0.8 miles to monitor point. The 310 degree Night monitor point is located on the east side of the road, twenty paces north of telephone company pole #3S. The point is located 2.5 miles from the antenna. The field intensity measured at this point should not exceed 119.4 mV/m, Night.